-10-01

Docket No. 9815/55092

Box Patent Application Assistant Commissioner for Patents Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL



Transmitted herewith for filing is the patent application of

Inventor(s):

Kevin M. Short

WARNING: Patent must be applied for in the name(s) of all of the actual inventor(s). 37 CFR 1.41(a) and 1.53(b).

For (title):

Method And Apparatus For The Compression and Decompression Of Image

Files Using A Chaotic System

1. Type of Application

This new application is for a(n) (check one applicable item below):

- Original
- Design
- **Plant**

NOTE: If one of the following 3 items apply then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.

- Divisional (37 CFR § 1.60)
- Continuation
- Continuation-in-part (CIP)

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date 1/9/01 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number <u>EL108468358US</u> addressed to the: Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

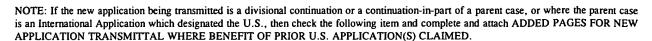
> Lourdes Raphanella ype or print name of person mailing paper)

(Signature of person mailing

Page 1 of 7

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The new application being transmitted claims the benefit of prior U.S. application(s) and enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

3. Papers Enclosed Which Are Required	For Filing Date Under	37 CFR 1.53(b) (Regular) or 37	CFR
1.153 (Design) Application			

<u>25</u>	Pages of specification
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- 5 Pages of claims
- Pages of Abstract
- 8 Sheets of drawing
 - formal
 - x informal

NOTE: "Identifying indicia such as the serial number, group and unit, title of the invention, attorney's docket number, inventor's name, number of sheets, etc., not to exceed 2 3/4 inches (7.0 cm) in width may be placed in a centered location between the side edges within three fourths inch (19.1 mm) of the top edge. Either this marking technique on the front of the drawing or the placement, although not preferred, of this information and the title of the invention on the back of the drawings is acceptable." Proposed 37 CFR 1.84(1). Notice of March 9, 1988 (1090 O.G. 57-62).

4. Additional papers enclosed

- Preliminary Amendment
- __ Information Disclosure Statement (37 CFR 1.98)
- Form PTO-1449
- Citations
- __ Declaration of Biological Deposit
- Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.
- Authorization of Attorney(s) to Accept and Follow Instructions from Representative
- Special Comments
- Other

5. Declaration	or oatn	
<u>x</u>	Enclose execute	d by (check all applicable boxes)
	<u>x</u>	inventor(s).
	_	legal representative of inventor(s). 37 CFR 1.42 or 1.43
	_	joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.
	_	this is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See Item 13 below for fee.
_	Not End	closed.
_		tion is made by a person authorized under 37 CFR 1.41(c) on behalf of all the above named (s). (The declaration or oath, along with the surcharge required by 37 CFR 1.16(e) can be filed subsequently)
NOTE: It is importa	ent that all t	the correct inventor(s) are named for filing under 37 CFR 1.41(c) and 1.53(b).
		Showing that the filing is authorized. (Not required unless called into question. 37 CFR 1.41(d).
6. Inventorship	Statem	nent
		ntors are each not the inventors of all the claims an explanation, including the ownership of the various claims a ion was made, should be submitted.
The inv	entorship	for all the claims in this application are:
	<u>X</u>	The same or
	_	Are not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made.
		_ is submitted will be submitted.
7. Language		
<u>x</u>	English	
	non-Eng	glish
		the attached translation is a verified translation. 37 CFR 1.52(d).

8.	Ass	sion	ment

<u>x</u>	An assignment of the invention to <u>University of New Hampshire</u>		
<u>x</u>	is attached. A separate <u>x</u> "COVER SHEET FOR ASSIGNMENT (DOCUMENT ACCOMPANYING NEW PATENT APPLICATION" or _ FORM PTO 1906 is also attached.		
	will follow		

NOTE: "If an assignment is submitted with a new application, send two separate letters-one for the application and one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).

9. Certified Copy

Certified copy(ies) of application(s)

(country)	(appln. no.)	(filed)	
(country)	(appln. no.)	(filed)	
(country)	(appln. no.)	(filed)	

from which priority is claimed

- __ is(are) attached.
- will follow.

10. Fee Calculation (37 CFR 1.16)

A. X Regular application

CLAIMS AS FILED				
Number filed	Number Extra		Rate	Basic Fee 37 CFR 1.16(a) \$710.00
Total				
Claims (37 CFR 1.16(c)) 10 - 20 =	0	X	\$18.00 /9.00	\$ 0
Independent				
Claims (37 CFR 1.16(b)) 3 - 3=	0	X	\$80.00 /40.00	\$ 0
Multiple dependent claim(s), if any (37 CFR 1.16(d))			\$270.00 /135	\$ 0
	ancelling extra clai			;

NOTE: If the fees for extra claims are not paid on filing they must be paid or the claims cancelled by amendment, prior to the expiration of the time period set for response by the Patent and Trademark Office in any notice of fee deficiency. 37 CFR 1.16(d).

Filing Fee Calculation

Fee for extra claims is not being paid at this time.

\$710.00

В.	_		application 0037 CFR 1.16(f)) Filing Fee Calculation	\$
C.	_		application 0037 CFR 1.16(9)) Filing fee calculation	\$
11. 9	Small Enti	ity State	ment(s)	
	<u>x</u> _	Verifie	d Statement(s) that this is a filing by a small entity under 37 CFR 1.9 and 1 Filing Fee Calculation (50% of A, B or C above)	.27 is(are) attached. \$_355.00
12.	Request fo	r Intern	national-Type Search (37 CFR 1.104(d)) (complete, if applicable)	
			prepare an international-type search report for this application at the ation on the merits takes place.	time when national
13.]	Fee Payme	ent Bein	g Made At This Time	
	_	Not En	closed	
	<u>x</u>	 Enclose	No filing fee is to be paid at this time. (This and the surcharge required can be paid subsequently.) ed	1 by 37 CFR 1.16(e)
		<u>x</u> _	basic filing fee	\$ 355.00
		<u>x</u>	recording assignment (\$40.00; 37 CFR 1.21 (h))	\$40.00
		<u>·</u>	petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached. (\$130.00; 37 CFR 1.47 and 1.17(h))	\$
		_	for processing an application with a specification in a non-English language. (\$130.00; 37 CFR 1.52(d) and 1.17(k)	\$
		_	processing and retention fee (\$130.00; 37 CFR 1.53(d) and 1.21 (l))	\$
		_	fee for international-type search report (\$40.00; 37 CFR 1.21 (e)).	\$
			Total fees enclosed	\$ 395.00

14. Method o	of Payme	nt of Fees
<u>x</u>	Check	in the amount of \$_395.00
_	Charge triplica	e Account No. <u>04-0932</u> in the amount of \$ This transmittal is submitted in ate.
NOTE: Fees shoul	ld be itemize	ed in such a manner that it is clear for which purpose the fees are paid. 37 CFR 1.22(b).
15. Authoriza	tion to	Charge Additional Fees
		be paid on filing the following items should not be completed. nt claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are
<u>X</u>	during	commissioner is hereby authorized to charge the following additional fees by this paper and the entire pendency of this application to Account No.
	<u>X</u>	37 CFR 1.16(a), (f) or (g) (filing fees)
	<u>X</u>	37 CFR 1.16(b), (c) and (d) (presentation of extra claims)
cancelled by amen	dment prior	s for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 CFR 1.16(d)), the the PTO to charge additional claim fees, except possibly when dealing with amendments after final action.
		37 CFR 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
	<u>X</u>	37 CFR 1.17 (application processing fees)
	_	37 CFR 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 CFR 1.311 (b))
16. Instruction	ns As To	o Overpayment
<u>X</u>	credit A	Account No. <u>04-0932</u>
_	refund	SIGNATURE OF ATTORNEY
Reg. No.: 37,22	21	Paul C. Remus Type or print name of attorney
Tel. No. (603)	669-1000	Devine, Millimet & Branch, P.A.

P.O. Address

111 Amherst Street, P.O. Box 719 Manchester, New Hampshire 03105

x Incorporation by reference of added pages

Check the following item if the application in this transmittal claims the benefit of prior U.S. application(s) (including an international application entering the U.S. stage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED

	APPLICATION TRANSMITTAL WHERE BENEFIT OF P	
x_	Plus Added Pages For New Application Transmittal Where Ben Claimed	efit Of Prior U.S. Application(s)
	Number of pages added	9
_	Plus Added Pages For Papers Referred To In Item 4 Above	
	Number of pages added	
<u>x</u>	Plus "Assignment Cover Letter Accompanying New Application"	
	Number of pages added	_1
-	Statement Where No Further Pages Added	
	(If no further pages form a part of this Transmittal then end this Tra the following item)	nsmittal with this page and check
	X This transmittal ends with this page.	

Docket No. 9	815/	55092
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ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED

NOTE:	"In order for an application to claim the benefit of a prior filed copending national application, the prior application must name as a inventor at least one inventor named in the later filed application and disclose the named inventor's invention claimed in at least on claim of the later filed application in the manner provided by the first paragraph of 35 U.S.C. 112." 37 CFR 1.78(a).		
NOTE:			
17.	Relate	Back	
NOTE:	contain in	plication claiming the benefit of a prior filed copending national or international application must contain or be amended to the first sentence of the specification following the title a reference to such prior application identifying it by serial number a date or international application number and international filing date and indicating the relationship of the applications." 37 (8(a)). See also the Notice of April 28, 1987 (1079 O.G. 32 to 46).	
	D	Amend the Specification by inserting before the first line the sentence:	
	A.	35 U.S.C. 119(e)	
NOTE:	amended identifyir	provisional application claiming the benefit of one or more prior filed copending provisional applications must contain or be to contain in the first sentence of the specification following the title a reference to each such prior provisional application, ag it as a provisional application, and including the provisional application number (consisting of series code and serial " 37 C.F.R. § 1.78(a)(4).	
	[]	"This application claims the benefit of U.S. Provisional Application(s) No(s).:	
APPLI	CATION	N NO(S).: FILING DATE	
			

0

NOTE:

B. 35 U.S.C. 120, 121 and 365(c)

NOTE: "Any nonprovisional application claiming the benefit of one or more prior filed copending nonprovisional applications or international applications designating the United States of America must contain or be amended to contain in the first sentence of the specification following the title a reference to each such prior application, identifying it by application number (consisting of the series code and serial number) or international application number and international filing date and indicating the relationship of the applications. Crossreferences to other related applications may be made when appropriate. (See § 1.14(b))." 37 C.F.R. § 1.78(2). [X]"This application is a

continuation continuation-in-part [X] divisional of copending application(s) [X] application number 09/597,101 filed on June 20, 2000 International Application _____ filed on _____ and which designated

date of the PCT application which designated the U.S.

the U.S." The proper reference to a prior filed PCT application which entered the U.S. national phase is the U.S. serial number and the filing

NOTE: (1) Where the application being transmitted adds subject matter to the International Application then the filing can be as a continuation-in-part or (2) if it is desired to do so for other reasons, e.g. where no declaration is available, no English translation is available or no fee is to be paid on filing then the filing can be as a continuation. In these cases the International Application designating the U.S. is treated as the parent case in the U.S. and is an alternative to the completion of the International Application under 35 U.S.C. 371(c)(4) which must meet the requirements of 37 CFR 1.61(a). This alternative permits the completion of the filing requirements within any term set by the PTO under 37 CFR 1.53(d) to which the extension provisions of 37 CFR 1.136(a) apply. (Whereas, if the filing is as an international application entering the U.S. stage then the fee, declaration and/or English translation (where necessary) is due within 20 months of the priority date but can be paid within 22 months of the priority date (or is due within 30 months of the priority date but can be submitted within 32 months of the priority date) with the surcharges set forth in 37 CFR 1.492(e), (f) and 37 CFR 1.495(c); however, the provisions of 37 CFR 1.136 do not apply to this 22 or (32 month) period. 37 CFR 1.61(b).)

IJ	The nonprovisional application designated above, namely application/(NOT YE	١٤
	ASSIGNED), filed, claims the benefit of U.S. Provisional Application(s) No(s).:	

APPLICATION NO(S).: FILING DATE

NOTE: The deadline for entering the national phase in the U.S. for an international application was clarified in the Notice of April 28, 1987 (1079 O.G. 32 to 46) as follows:

"The Patent and Trademark Office considers the International application to be pending until the 22nd month from the priority date if the United States has been designated and no Demand for International Preliminary Examination has been filed prior to the expiration of the 19th month from the priority date and until the 32nd month from the priority date if a Demand for International Preliminary Examination which elected the United States of America has been filed prior to the expiration of the 19th month from the priority date, provided that a copy of the international application has been communicated to the Patent and Trademark Office within the 20 or 30 month period respectively. If a copy of the international application has not been communicated to the Patent and Trademark Office within the 20 or 30 month period respectively, the international application becomes abandoned as to the United States 20 or 30 months from the priority date respectively. These periods have been placed in the rules as paragraph (h) of § 1.494 and paragraph (i) of § 1.495. A continuing application under 35 U.S.C. 365(c) and 120 may be filed anytime during the pendency of the international application. "

18. Relate Back-35 U.S.C. 119 Priority Claim for Prior Application

	The prior U.S	S. application(s),	including any	prior Interna	ational App	lication de	esignating	the
U.S.,	identified above	in item 17, in tu	rn itself claim	(s) foreign p	riority (ies)	as follow	rs:	

	-	count	гу	appln. no.	filed on			
The ce	rtified c	opy (ies)	has (have)					
	0	been	filed on	in prior application 0_/	, which was filed on			
	0	is (ar	e) attached					
WARNING:		may no is so b and is stage in applica continu transfe Accord	The certified copy of the priority application which may have been communicated to the PTO by the International Bureau may not be relied on without any need to file a certified copy of the priority application in the continuing application. This is so because the certified copy of the priority application communicated by the International Bureau is placed in a folder and is not assigned a U.S. serial number unless the national stage is entered. Such folders are disposed of if the national stage is not entered. Therefore such certified copies may not be available if needed later in the prosecution of a continuing application. An alternative would be to physically remove the priority documents from the folders and transfer them to the continuing application. The resources required to request transfer, retrieve the folders, make suitable record notations, transfer the certified copies, enter and make a record of such copies in the Continuing Application are substantial. Accordingly, the priority documents in folders of international applications which have not entered the national stage may not be relied on. Notice of April 28, 1987 (1079 O.G. 32 to 46).					
19.	Main	tenance	of Copendency	of Prior Application				
NOTE:		The PTO finds it useful if a copy of the petition filed in the prior application extending the term for response is filed with the papers constituting the filing of the continuation application. Notice of November 5, 1985(1060 O.G. 27).						
	A.	0	Extension of	time in prior application				
(This ite	m must l	pe completed and	the papers filed in the prior application has run)	tion if the period set in the prior			
		D	A petition, f	ee and response extends the term	in the pending prior application until			
			[] A co	ppy of the petition filed in prior application	cation is attached			
	В.	O	Conditional F	Petition for Extension of Time in Price	or Application			
			(comple	te this item if previous item not appli	cable)			
		0	A conditional	petition for extension of time is being	g filed in the pending prior application.			
			[] A co	ppy of the conditional petition filed in	the prior application is attached			
20	Enset	or Invo	ntarchin Statom	ent Where Renefit of Prior Annlica	tion(s) Claimed			

NOTE: "If the continuation, continuation-in-part, or divisional application is filed by less than all the inventors named in the prior application a statement must accompany the application when filed requesting deletion of the names of the person or persons who are not inventors of the invention being claimed in the continuation, continuation-in-part, or divisional application. " 37 CFR 1.62(a) [emphasis added]. (dealing with the file wrapper continuation situation).

NOTE: "In the case of a continuation-in-part application which adds and claims additional disclosure by amendment, an oath or declaration as required by § 1.63 must be filed. In those situations where a new oath or declaration is required due to additional subject matter being claimed, additional inventors may be named in the continuing application. In a continuation or divisional application which discloses and claims only subject matter disclosed in a prior application, no additional oath or declaration is required and the application must name as inventors the same or less than all the inventors in the prior application." 37 CFR 1.60(c). (dealing with the continuation situation).

		(complete applicable item (a), (b) and/or (c) below)
(a)	0	This application discloses and claims only subject matter disclosed in the prior application whose particulars are set out above and the inventor(s) in this application are
		[] the same
		[] less than those named in the prior application and it is requested that the following inventor(s) identified for the prior application be deleted:
-		(Type name(s) of inventor(s) to be deleted)
(b)	[x]	This application discloses and claims additional disclosure by amendment and a new declaration or oath is being filed. With respect to the prior application the inventor(s) in this application are
		[x] the same
		[] the following additional inventor(s) have been added
		(Type name(s) of inventor(s) to be added)
(c)	The in	nventorship for all the claims in this application are
	[x]	the same
	0	not the same, and an explanation, including the ownership of the various claims at the time the last claimed invention was made
		is submitted will be submitted

21. Abandonment of Prior Application (if applicable)

Please abandon the prior application at a time while the prior application is pending or when the petition for extension of time or to revive in that application is granted and when this application is granted a filing date so as to make this application copending with said prior application.

NOTE: According to the Notice of May 13, 1983 (103, TMOG 6-7) the filing of a continuation or continuation-in-part application is a proper response with respect to a petition for extension of time or a petition to revive and should include the express abandonment of the prior application conditioned upon the granting of the petition and the granting of a filing date to the continuing application.



WARNING:

"The claims of a new application may be finally rejected in the first Office action in those situations where (1) the new application is a continuing application of, or a substitute for, an earlier application, and (2) all the claims of the new application (a) are drawn to the same invention claimed in the earlier application, and (b) would have been properly finally rejected on the grounds of art of record in the next Office action if they had been entered in the earlier application." MPEP, § 706.07(b).

NOTE: Where it is possible that the claims on file will give rise to a first action final for this continuation application and for some reason an amendment cannot be filed promptly (e.g., experimental data is being gathered) it may be desirable to file a petition for suspension of prosecution for the time necessary.

(check the next item, if applicable)

- [] There is provided herewith a Petition To Suspend Prosecution for the Time Necessary to File An Amendment (New Application Filed Concurrently)
- 23. Small Entity (37 CFR § 1.28(a))
 - Applicant has established small entity status by the filing of a verified statement in parent application 09 / 597,101 on 6/20/2000 .
 - [x] A copy of the verified statement previously filed is included.

WARNING:

"Status as a small entity in one application or patent does not affect any other application or patent, including applications or patents which are directly or indirectly dependent upon the application or patent in which the status has been established. Applications filed as continuations, divisions or continuations-in-part of a parent application must include a reference to a verified statement filed in the parent application if status as a small entity is still proper and desired." 37 CFR § 1.28(a).

24. NOTIFICATION IN PARENT APPLICATION OF THIS FILING

A notification of the filing of this

(check one of the following)

- [] continuation
- [x] continuation-in-part
- [] divisional

is being filed in the parent application from which this application claims priority under 35 USC § 120.

In re application of:

Kevin M. Short, Dan Hussey and Kimo Johnson

Serial No.:

09/437,565

Filed:

November 10, 1999

Group No.:

2837

For:

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METHOD AND APPARATUS FOR COMPRESSED CHAOTIC MUSIC SYNTHESIS

Assistant Commissioner for Patents BOX PATENT APPLICATION Washington, D.C. 20231

TRANSMITTAL

- Transmitted herewith is a Verified Statement Claiming Small Entity Status; and 1.
- A self-addressed, prepaid return postcard. 2.

STATUS

- 2. Applicant is
 - a small entity verified statement: <u>X</u>

<u>X</u> attached.

already filed.

other than a small entity.

CERTIFICATE OF MAILING (37 CFR 1.8(a))

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United State Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Laura S. Kaplan

(Type or print name of person mailing letter)